

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY:

To:

Bailey, Walsh & Co.
5 York Place
Leeds LS1 2SD
UNITED KINGDOM

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year)

Applicant's or agent's file reference
JD/PW/6858 PCT

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/GB94/00995

International filing date
(day/month/year) 09/05/94

Applicant

INSITUFORM TECHNOLOGIES LTD et al.

1. The applicant is hereby notified that the international search report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.

Where? To the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Fascimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2; the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Further action(s): The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

- 5 SEP 1994

Name and mailing address of the International Searching Authority

 European Patent Office, P.B. 5818 Patentlaan 2
 NL-2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

M.A. Stolk

02 -09- 1994

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference JD/PW/6858	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/GB94/00995	International filing date (<i>day/month/year</i>) 09/05/94	(Earliest) Priority Date (<i>day/month/year</i>) 25/09/93
Applicant INSITUFORM TECHNOLOGIES LTD et al.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Certain claims were found unsearchable (see Box I).
2. Unity of invention is lacking (see Box II).
3. The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
 - filed with the international application.
 - furnished by the applicant separately from the international application,
 - but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - Transcribed by this Authority
4. With regard to the title, the text is approved as submitted by the applicant.
 - the text has been established by this Authority to read as follows:
5. With regard to the abstract,
 - the text is approved as submitted by the applicant.
 - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:
 - Figure No. 4 as suggested by the applicant.
 - because the applicant failed to suggest a figure.
 - because this figure better characterizes the invention.
 - None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 94/00995

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 6 F16L55/16 B29C63/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 6 F16L B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO,A,91 16568 (INSITUFORM GROUP LTD.) 31 October 1991 see abstract; figures ---	1
A	EP,A,0 518 521 (GET INC.) 16 December 1992 see abstract; figures ---	1
A	DE,U,91 06 179 (F. JANSSEN) 1 August 1991 see claims; figures ---	1
A	WO,A,92 21909 (WAVIN B.V.) 10 December 1992 see abstract; figures -----	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

1

Date of the actual completion of the international search 24 August 1994	Date of mailing of the international search report 02.09.94
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+ 31-70) 340-3016	Authorized officer Budtz-Olsen, A

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 94/00995

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO-A-9116568	31-10-91	AU-B-	643019	04-11-93
		AU-A-	7748691	11-11-91
		CA-A-	2079335	24-10-91
		EP-A-	0526521	10-02-93
		TR-A-	25237	01-01-93
EP-A-0518521	16-12-92	JP-A-	4355115	09-12-92
		US-A-	5329063	12-07-94
DE-U-9106179	01-08-91	DE-A-	4213898	19-11-92
WO-A-9221909	10-12-92	NL-A-	9100917	16-12-92
		AU-A-	1978992	08-01-93

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION
(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Washington D.C. 20231
United States of America

in its capacity as elected Office

Date of mailing: 19 April 1995 (19.04.95)	
International application No.: PCT/GB94/00995	Applicant's or agent's file reference: JD/PW/6858
International filing date: 09 May 1994 (09.05.94)	Priority date: 25 September 1993 (25.09.93)
Applicant: TAYLOR, Kevan, Charles	

1. The designated Office is hereby notified of its election made:

in the demand filed with the International Preliminary Examining Authority on:

23 March 1995 (23.03.95)

in a notice effecting later election filed with the International Bureau on:

2. The election was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer: P. Steunenberg Telephone No.: (41-22) 730.91.11
---------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------

PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING
DOCUMENT TRANSMITTED

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Washington D.C. 20231
United States of America

Date of mailing (day/month/year)
02 August 1995 (02.08.95)

in its capacity as elected Office

International application No.
PCT/GB94/00995

International filing date (day/month/year)
09 May 1994 (09.05.94)

Applicant

INA ACQUISITION CORP. et al

The International Bureau transmits herewith the following documents and number thereof:

copy of the international preliminary examination report (Article 36(3)(a))

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

K. Andreasson

Telephone No.: (41-22) 730.91.11

PATENT COOPERATION TREATY

PCT

REC'D 26 JUL 1995
WIPO PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JD/PW/6858	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/ GB 94/ 00995	International filing date (day/month/year) 09/05/1994	Priority date (day/month/year) 25/09/1993
International Patent Classification (IPC) or national classification and IPC F16L55/16		
Applicant INA ACQUISITION CORP. et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

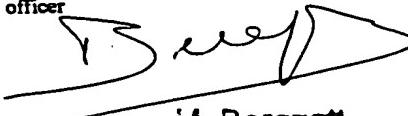
2. This REPORT consists of a total of 4 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consists of a total of _____ sheets.

3. This report contains indications and corresponding pages relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

Date of submission of the demand 23/03/1995	Date of completion of this report 24. 07. 95
Name and mailing address of the IPEA/  European Patent Office D-80298 Munich Tel. (+ 49-89) 2399-0, Tx: 523656 epmu d Fax: (+ 49-89) 2399-4465	Authorized officer  M. Bergzon Telephone No. (27/04/1995)

I. Basis of the report

1. This report has been drawn up on the basis of (Replacement sheets which have been furnished to the receiving office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

the international application as originally filed.

the description, pages _____, as originally filed,
pages _____, filed with the demand,
pages _____, filed with the letter of _____,
pages _____, filed with the letter of _____,

the claims, Nos. _____, as originally filed,
Nos. _____, as amended under Article 19,
Nos. _____, filed with the demand,
Nos. _____, filed with the letter of _____,
Nos. _____, filed with the letter of _____,

the drawings, sheets/fig _____, as originally filed,
sheets/fig _____, filed with the demand,
sheets/fig _____, filed with the letter of _____,
sheets/fig _____, filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

the description, pages _____.
 the claims, Nos. _____.
 the drawings, sheets/fig _____.

3. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Intern. application No.

PCT/GB94/00995

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement

1. STATEMENT

Novelty (N) Claims 1 - 10 _____ YES
 Claims _____ NO

Inventive Step (IS) Claims 1 - 10 _____ YES
 Claims _____ NO

Industrial Applicability (IA) Claims 1 - 10 _____ YES
 Claims _____ NO

2. CITATIONS AND EXPLANATIONS

1. None of the cited documents discloses an assembly or a method including all the features of claims 1 and 8 respectively.

Consequently the subject-matter of claims 1 and 8 and their respective dependent claims 2 to 7, 9 and 10 is novel (article 33(2) PCT).

2. None of the cited documents suggests alone or in combination to provide an assembly as defined in claim 1 of the application.

Furthermore none of the documents suggests the specific method of assembling the assembly disclosed in claims 8. Consequently the subject-matter of claims 1 and 8 and their respective dependent claims 2 to 7, 9 and 10 involves an inventive step (article 33(3) PCT).

3. The industrial applicability of the subject-matter of claims 1 to 10 is evident (article 33(4) PCT).

Intern. application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/GB94/00995

VII. Certain defects in the international application

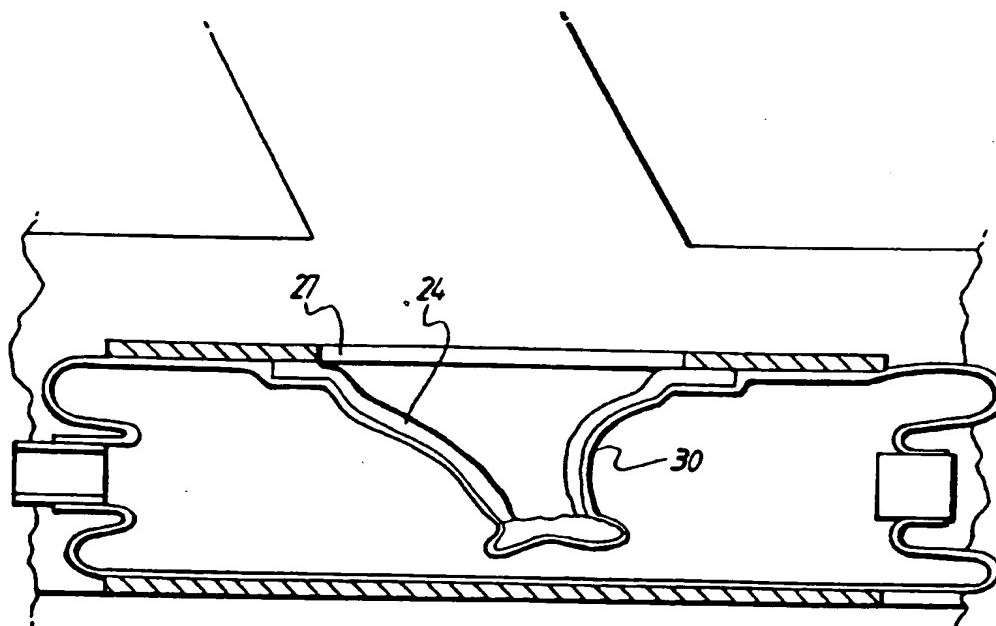
The following defects in the form or contents of the international application have been noted:

Claim 1 is not properly delimited having regard to the prior art cited in the description (rule 6.3 (b) PCT).

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : F16L 55/16, B29C 63/28	A1	(11) International Publication Number: WO 95/08737 (43) International Publication Date: 30 March 1995 (30.03.95)
(21) International Application Number: PCT/GB94/00995		(81) Designated States: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KG, KP, KR, KZ, LK, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).
(22) International Filing Date: 9 May 1994 (09.05.94)		
(30) Priority Data: 9319832.3 25 September 1993 (25.09.93) GB		
(71) Applicant (<i>for all designated States except AU CA NZ US</i>): INA ACQUISITION CORP. [US/US]; Suite 300, 1770 Kirby Parkway, Memphis, TN 38138 (US).		Published <i>With international search report.</i>
(71) Applicant (<i>for AU NZ only</i>): INSITUFORM LICENSEES B.V./S.A. [NL/NL]; 3rd floor, West Blaak 6, NL-3012 KK Rotterdam (NL).		
(71) Applicant (<i>for CA only</i>): INSITUFORM (NETHERLANDS) B.V. [NL/NL]; 3rd floor, West Blaak 6, NL-3012 KK Rotterdam (NL).		
(72) Inventor; and		
(75) Inventor/Applicant (<i>for US only</i>): TAYLOR, Kevan, Charles [GB/GB]; Cynon, Neweys Hill, Worcester WR3 7DZ (GP).		
(74) Agent: BAILEY WALSH & CO.; 5 York Place, Leeds LS2 2SD (GB).		

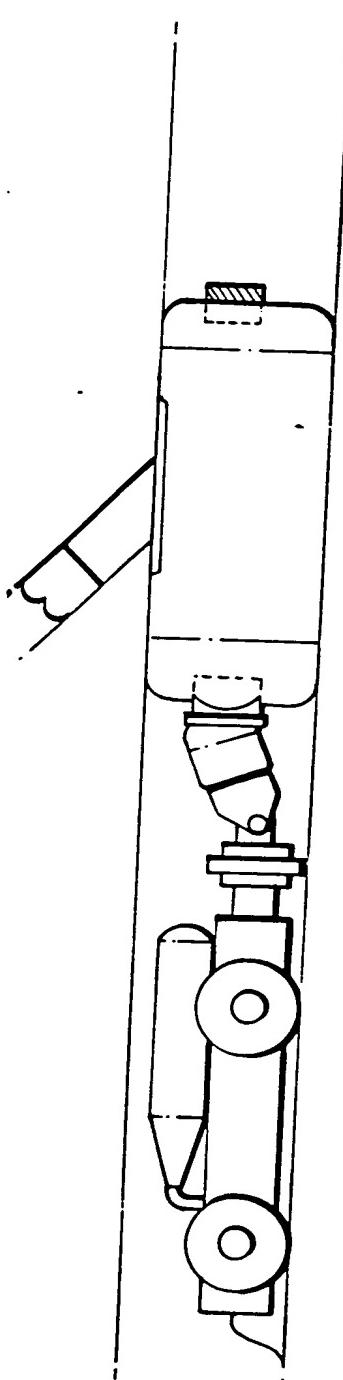
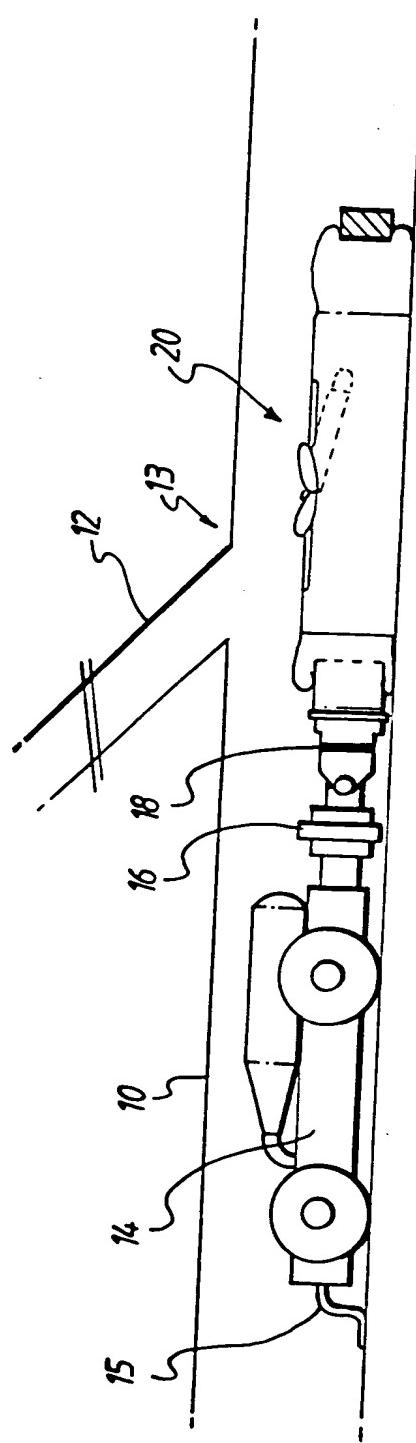
(54) Title: IMPROVEMENTS RELATING TO THE LINING OF PIPELINES AND PASSAGEWAYS



(57) Abstract

The invention provides a tailored assembly of a flexible resin absorbent material (22, 24, 26). It is in the form of a "T" and is of tubular cross section. The arms of the T are intended to lie on the surface of a main underground pipe which the leg of the T extends into a lateral pipe which connects with the main pipe. The whole assembly is soaked in curable synthetic resin and it is placed in position and held there whilst the resin cures by means of an inflatable bag (28) which is located inside the assembly and is also tailored to T configuration.

1/3



2/3

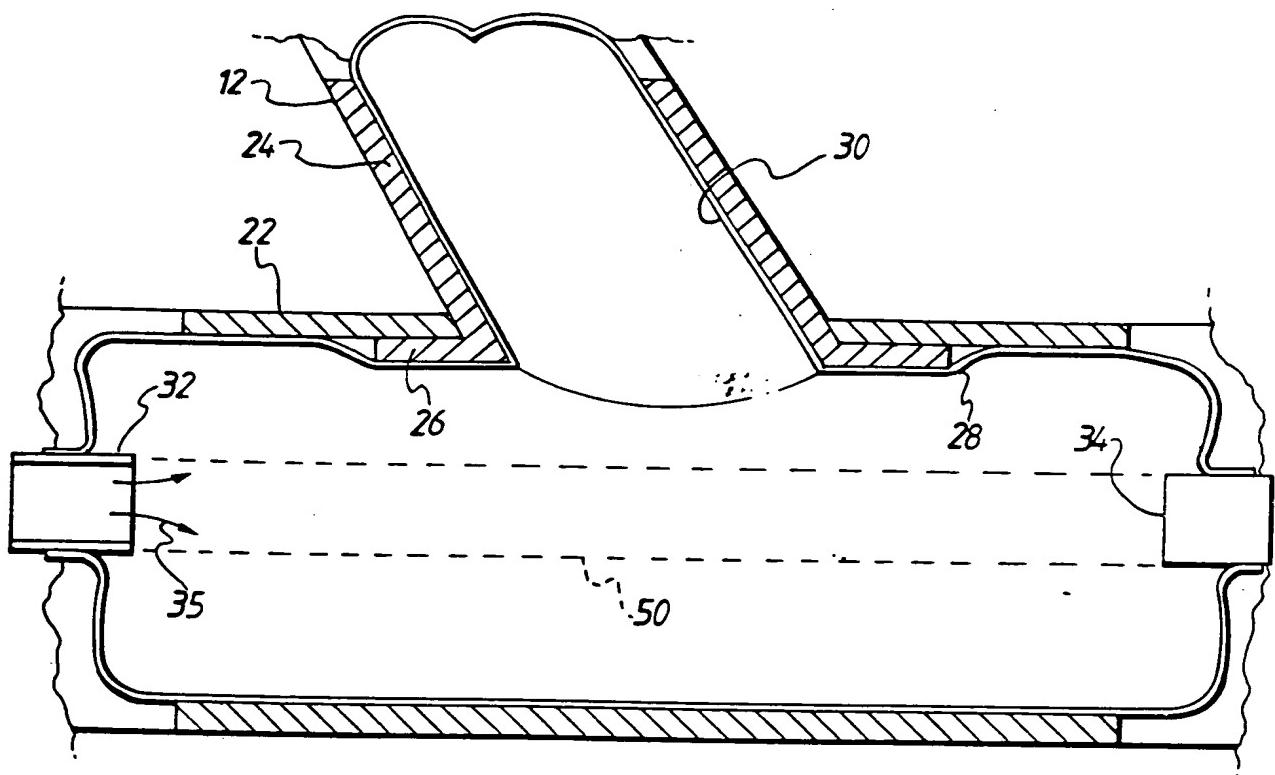


FIG.3.

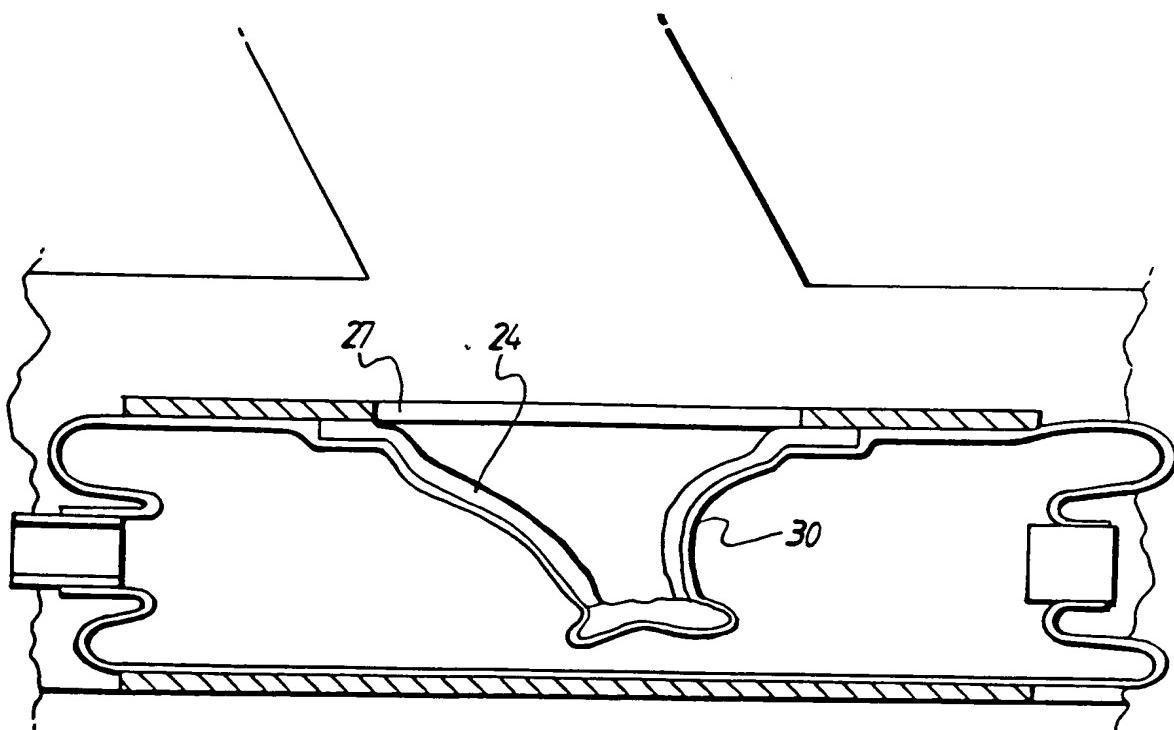


FIG.4.

SUBSTITUTE SHEET (RULE 26)

3/3

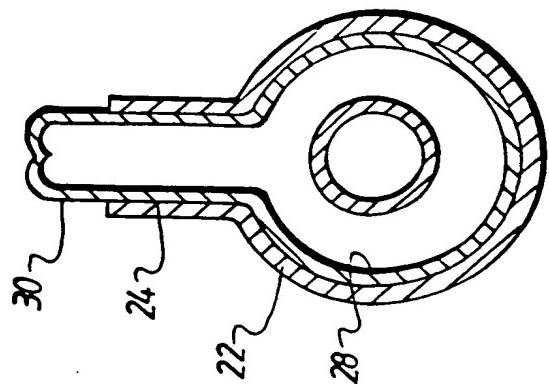
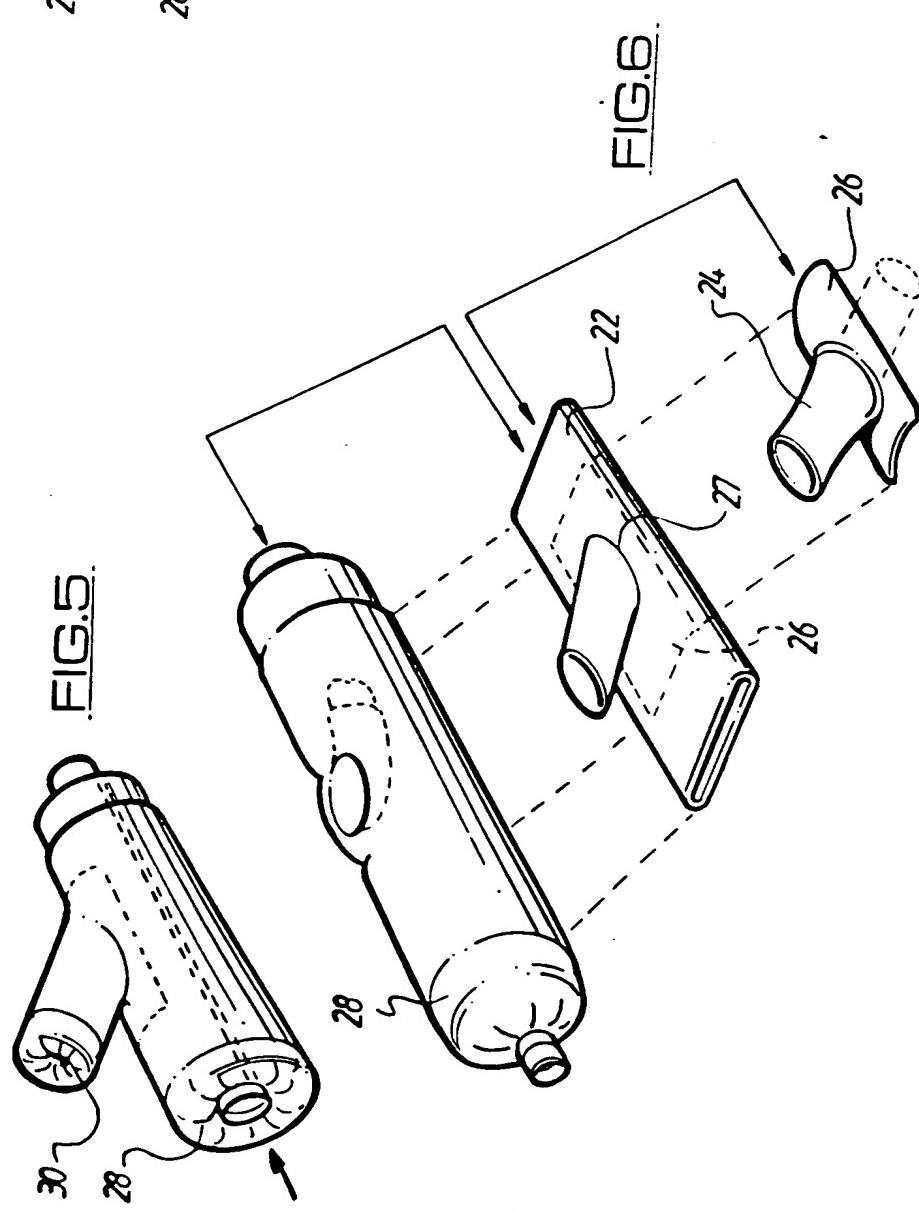


FIG.7.



SUBSTITUTE SHEET (RULE 26)

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 F16L55/16 B29C63/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 F16L B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO,A,91 16568 (INSITUFORM GROUP LTD.) 31 October 1991 see abstract; figures ---	1
A	EP,A,0 518 521 (GET INC.) 16 December 1992 see abstract; figures ---	1
A	DE,U,91 06 179 (F. JANSSEN) 1 August 1991 see claims; figures ---	1
A	WO,A,92 21909 (WAVIN B.V.) 10 December 1992 see abstract; figures -----	1

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *'A' document defining the general state of the art which is not considered to be of particular relevance
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- *'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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1

Date of the actual completion of the international search

24 August 1994

Date of mailing of the international search report

02.09.94

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax. (+31-70) 340-3016

Authorized officer

Budtz-Olsen, A

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/GB 94/00995

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO-A-9116568	31-10-91	AU-B-	643019	04-11-93
		AU-A-	7748691	11-11-91
		CA-A-	2079335	24-10-91
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PATENT COOPERATION TREATY
PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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International application No. PCT/GB94/00995	International filing date (<i>day/month/year</i>) 09/05/94	(Earliest) Priority Date (<i>day/month/year</i>) 25/09/93
Applicant INSITUFORM TECHNOLOGIES LTD et al.		

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International Application No

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A	DE,U,91 06 179 (F. JANSEN) 1 August 1991 see claims; figures ---	1
A	WO,A,92 21909 (WAVIN B.V.) 10 December 1992 see abstract; figures -----	1

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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- "&" document member of the same patent family

1

Date of the actual completion of the international search

Date of mailing of the international search report

24 August 1994

02.09.94

Name and mailing address of the ISA
 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+ 31-70) 340-3016

Authorized officer

Budtz-Olsen, A

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 94/00995

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO-A-9116568	31-10-91	AU-B-	643019	04-11-93
		AU-A-	7748691	11-11-91
		CA-A-	2079335	24-10-91
		EP-A-	0526521	10-02-93
		TR-A-	25237	01-01-93
EP-A-0518521	16-12-92	JP-A-	4355115	09-12-92
		US-A-	5329063	12-07-94
DE-U-9106179	01-08-91	DE-A-	4213898	19-11-92
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